

Abstract

A material shortage simulation management system (100) is for calculating quantities of material shortage relating to manufacturing orders (101). The system includes a database (200) for storing data used in procedures of material shortage simulations; a data obtaining unit (110) for obtaining data from the database; a computing unit (120) for calculating material requirement quantities and inventories, and for determining quantities of material shortage; a judging unit (130) for determining whether it is necessary to purchase material and adjust distributed inventories, and for ascertaining whether material shortage simulations of all materials in a manufacturing order have been finished; and a material adjustment unit (140) for allotting distributed inventories to current inventories when material shortages occur. A related method is also disclosed.